58. For, thoſe anſwering to the Radius ſo divided, are $\frac{SR}{\Sigma}$; (taking S in *Arithmetical* progreſſion.)

59. And then, inlarging the Baſe (as in Fig. 8.) or the Tangent (as in Fig. 9.) in the proportion of the Tangent to the Sine.

$$S.\tfrac{SR}{\Sigma}(::\Sigma.R):: \tfrac{SR}{\Sigma}.\ \tfrac{SR_2}{\Sigma_2} = \tfrac{SR_2}{R_2-S_2}.$$

60. We have (by diviſion) this Series,

$$S+\tfrac{S^3}{R_2}+\tfrac{S^5}{R_4}+\tfrac{S^7}{R6}+\tfrac{S^9}{R8}\ \&c.$$

$$\begin{array}{l} R^2-S^2)\ SR^2(S,+\frac{S^3}{R_2},+\frac{S^5}{R_4},+ \\ \qquad\qquad \frac{SR_2-S_3}{S_3} \\ \qquad\qquad +S^3-\frac{S^5}{R_2} \\ \qquad\qquad \overline{\qquad\qquad} \\ \qquad\qquad\qquad +\frac{S^5}{R_2} \\ \qquad\qquad\qquad +\frac{S^5}{R_2}-\frac{S^7}{R_4} \\ \qquad\qquad\qquad \overline{\qquad\qquad} \\ \qquad\qquad\qquad\qquad +\frac{S^7}{R_4} \end{array}$$

61. That is (putting R=1)

$$S+S^3+S^5+S^7+S^9,\ \&c.$$

62. Which (multiplying the reſpective members by $\frac{1}{2}S$, $\frac{1}{4}S$, $\frac{1}{6}S$, $\frac{1}{8}S$, $\frac{1}{10}S$, &c) becomes

$$\tfrac{1}{2}S^2+\tfrac{1}{4}S^4+\tfrac{1}{6}S^6+\tfrac{1}{8}S^8+\tfrac{1}{10}S^{10},\ \&c.$$

Which is the Aggregate of Tangents to the Arch who's right Sine is S.

63. And this method may be a pattern for the like proceſs in other caſes of like nature.

An Explanation of the Figures of Several Antiquities, communicated by a Member *of the* Royal Society.

FIG. 10, 11, 12, 13, 14, 15. *Res Turpiculæ*, or *Priapi*, worn by Roman Children againſt Faſcination.

16. An Ægyptian braſs *Serapis*, or *Teraphim*.

17. A braſs *Stilus Scriptorius*.

18, 19. Old Roman Keys of braſs; one being a Ring to wear on a Womans finger.

20. An Iron Die, or *Alea.*

21. A flat Iron Die, or *Talus*; upon the narrow ſides are 6. 5. 2. and 1.

22. A Roman Iron Ring.

23. An old Roman braſs Ring, marked XXXV, for a ſlave to wear.

24. A braſs Roman Ear-Ring.

25. A braſs *Lunula*, or *Meniſcus.*

26. A braſs *Fibula.*

27, 28, 29, 30, 31. Antient *Paſts*, or *Opaque-Enamels* of divers colours, for Pavements; taken up at *Baiæ.*

The Figures 32, 33, 34. repreſent the *Cochineel Fly*, as ſeen on its belly by the help of the *Microſcope*, and by the naked Ey, and as ſeen on its back thro' a *Microſcope*; the Draughts of which were communicated by Dr *Tyſon*, *Fellow* of the *Royal Society.*

A Letter from Mr. St Georg Aſh, *Sec. of the* Dublin *Society, to one of the* Secretaries *of the* Royal Society; *concerning a* Girl *in* Ireland, *who has ſeveral* Horns *growing on her Body.*

Trin. Coll. the 10th of *Octo.* 1685.

Hon. Sir.

THE Account I here ſend of the *Horny Girl* is, much more imperfect then I hoped it would have been, both becauſe its parents or friends, who might give ſome information of the beginning and occaſion of the growing out of theſe *Horns*, are not to be found, and that the owner of this Monſter would not be perſwaded to let us take the figure thereof, which we deſign'd to preſent you. She

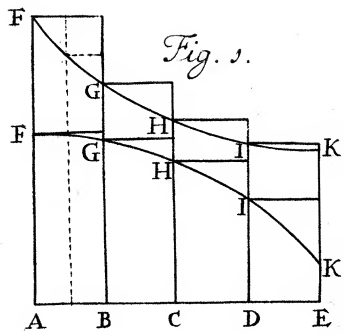


Fig. 1.

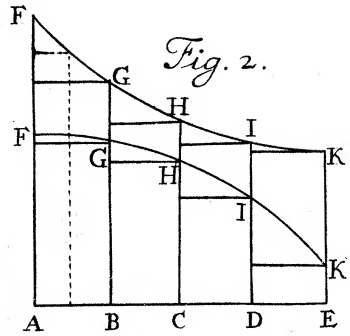
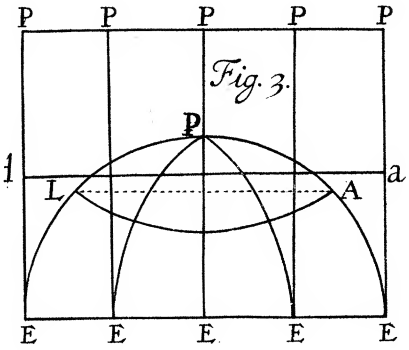


Fig. 2.



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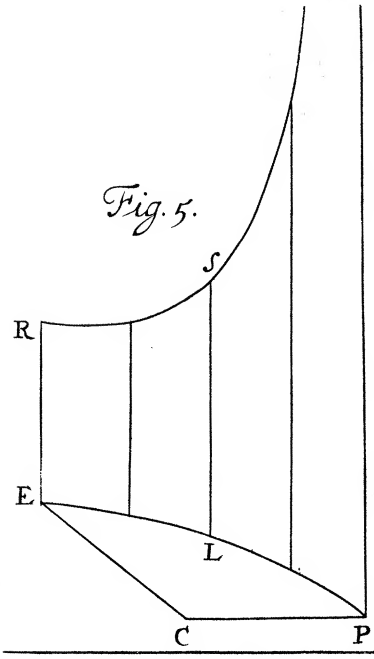

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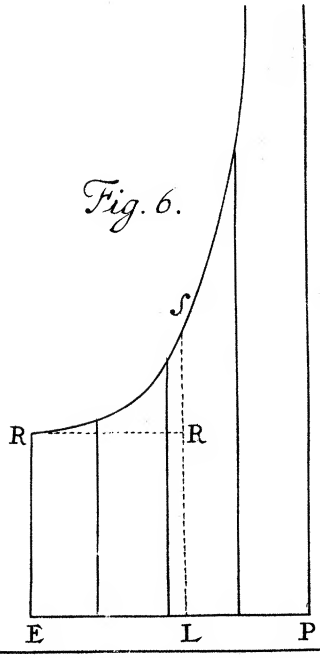

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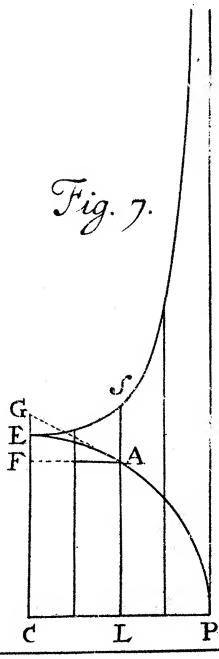

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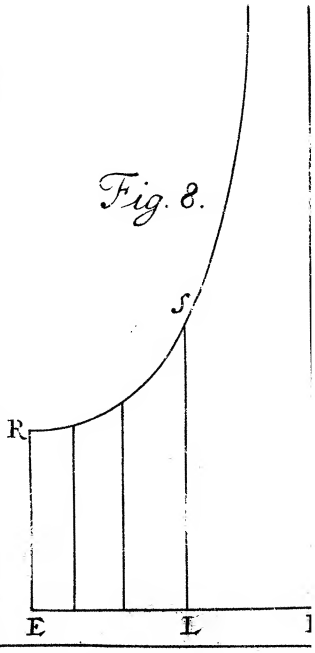

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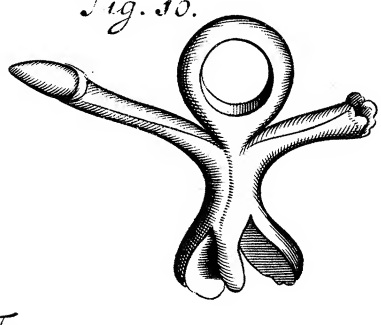
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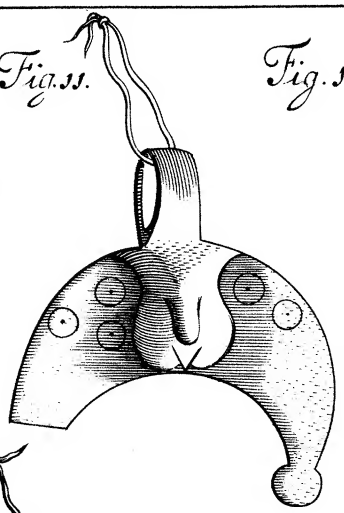
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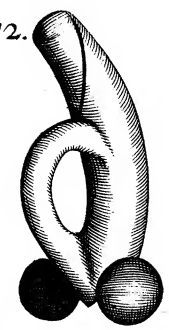
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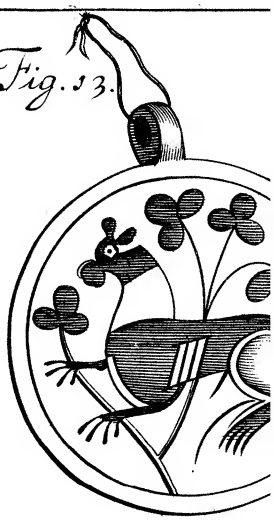
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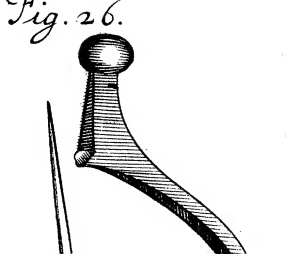
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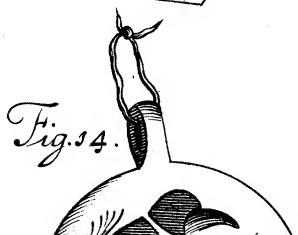
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Fig. 20.

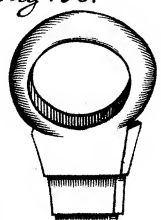
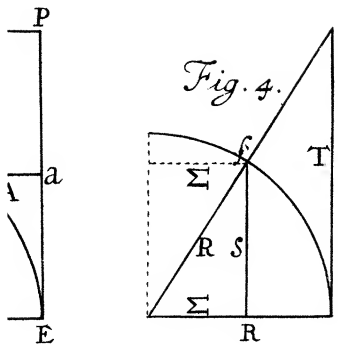


Fig. 18.

Fig. 19.



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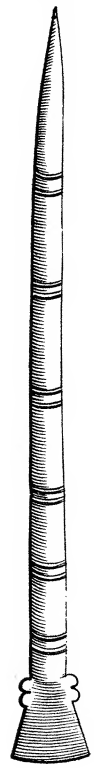


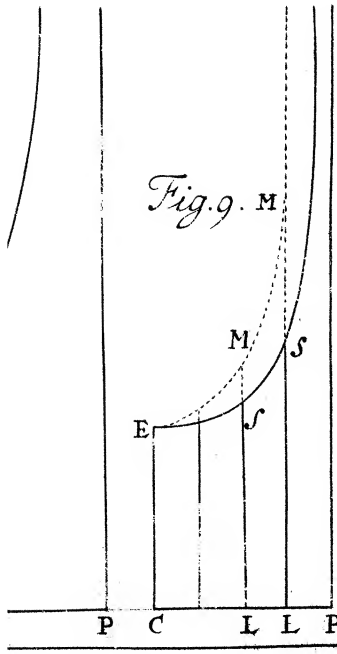
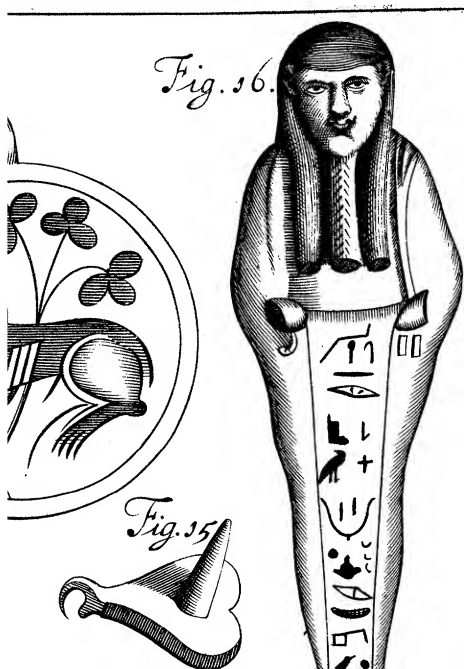


Fig. 9.

Fig. 16.



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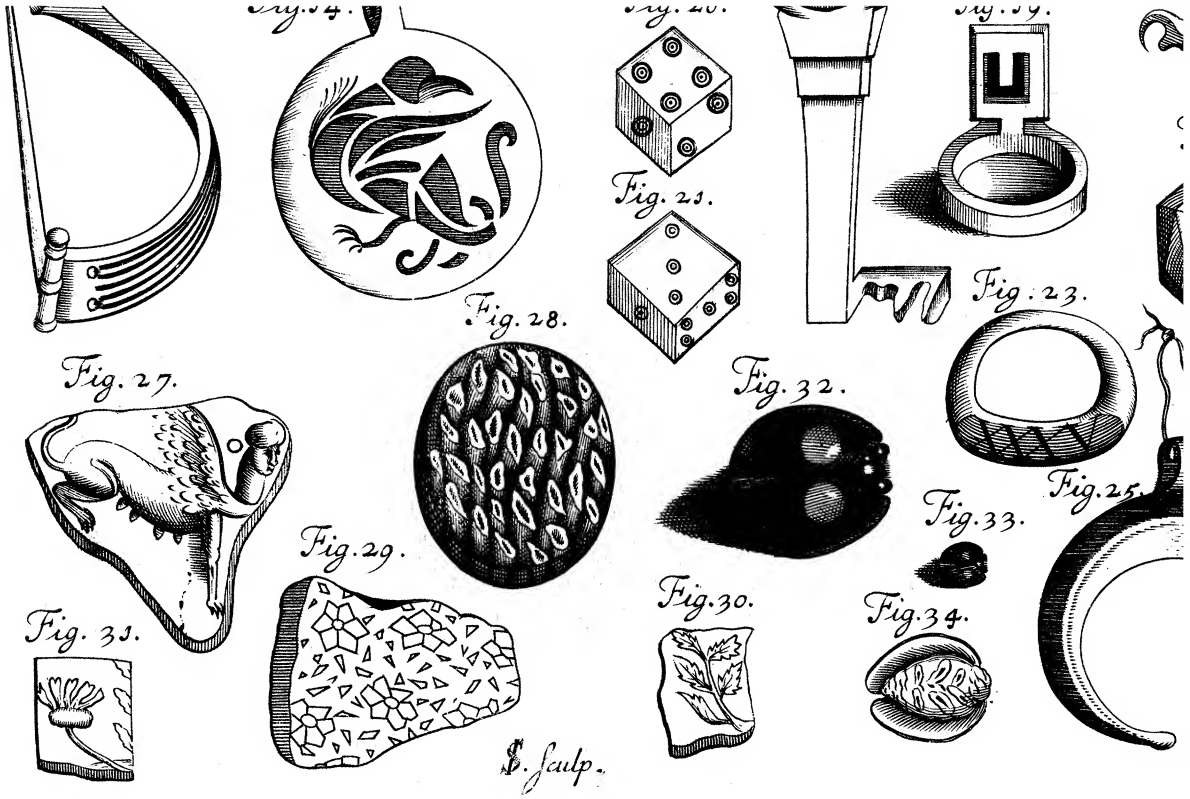
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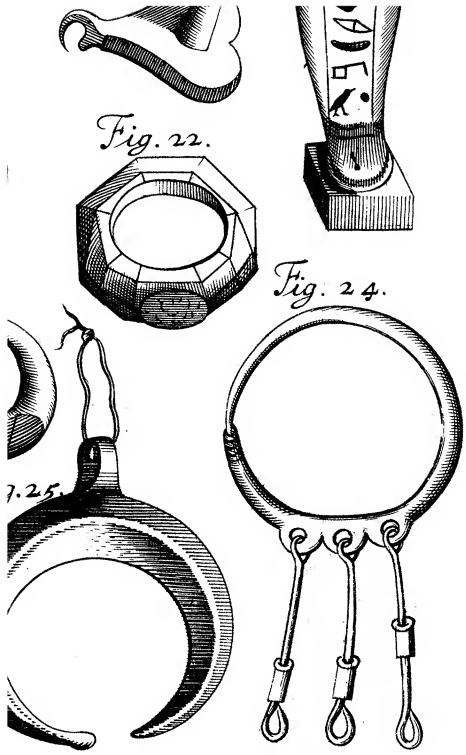
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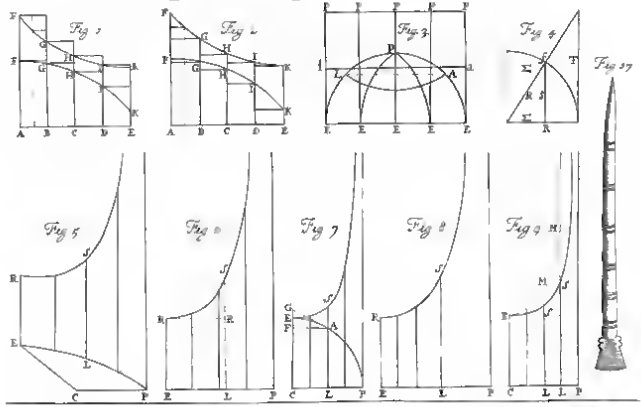
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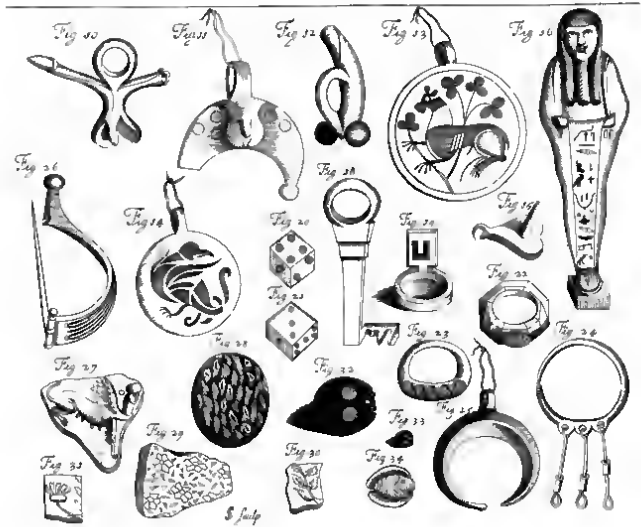
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S. Sculp